

Grand Calumet River Area of Concern Beach Closings BUI Update



Citizens Advisory for the Remediation of the Environment (CARE)
Workgroup Meeting - September 24, 2020

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Beaches in the Grand Calumet River AOC

Hammond Marina East and West Beaches

Whihala East and West Beaches

Horseshoe Hammond

Whiting

Jeorse Park Beaches
and Buffington Harbor Beach

Marquette Park Beach

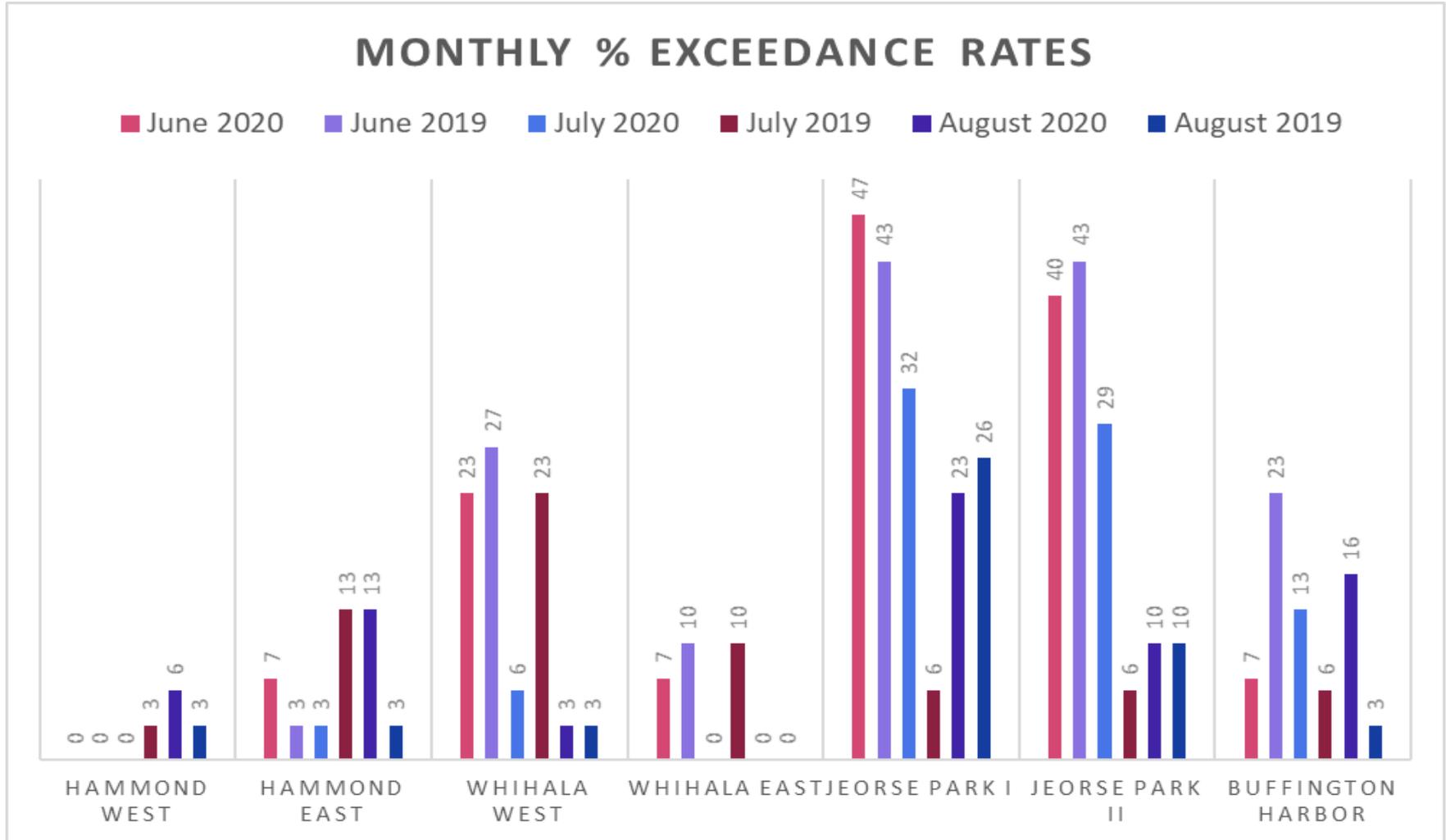
Lake Street Beach

Marquette
Park



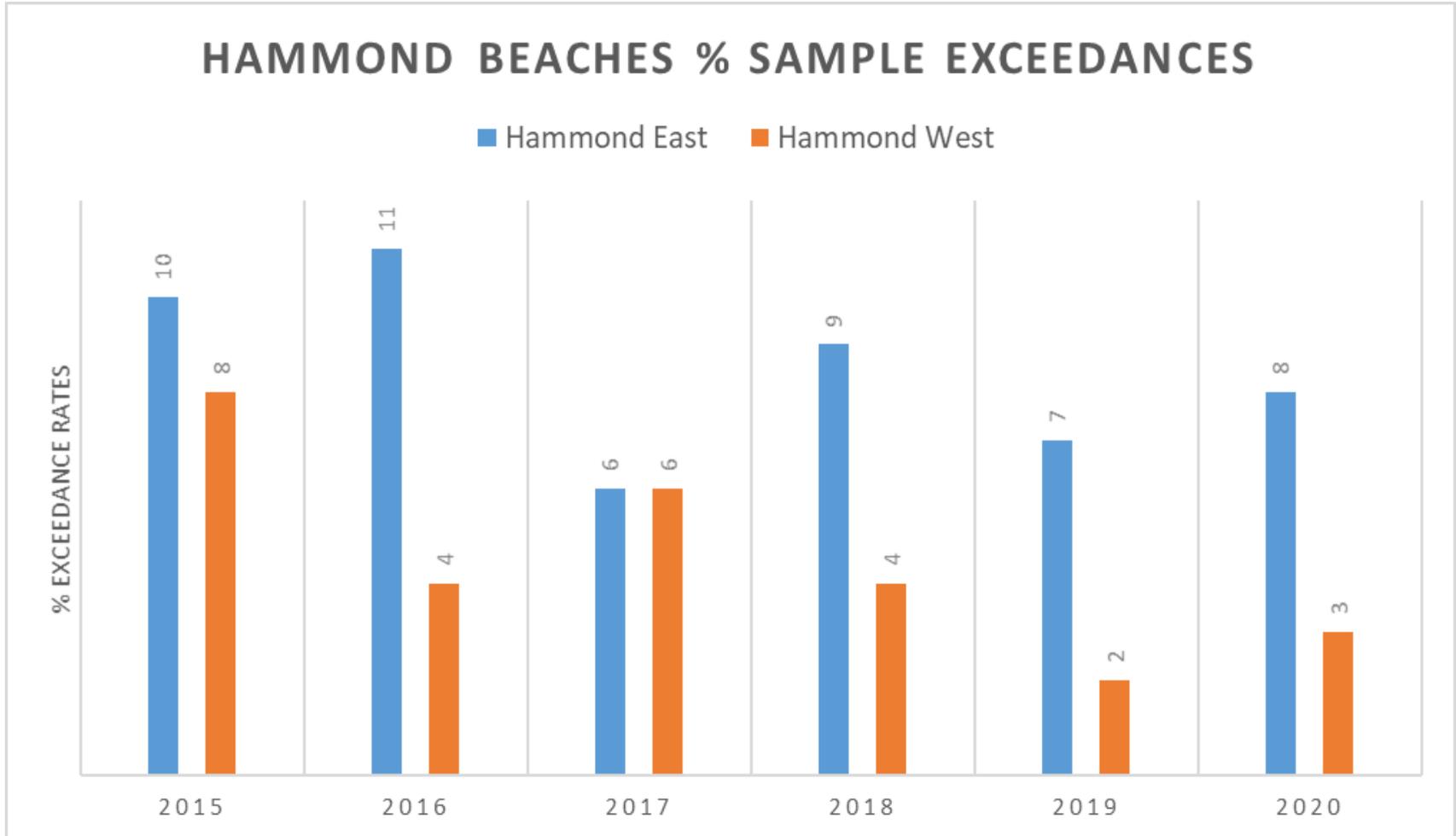


Monthly Exceedance Rates 2020 vs. 2019

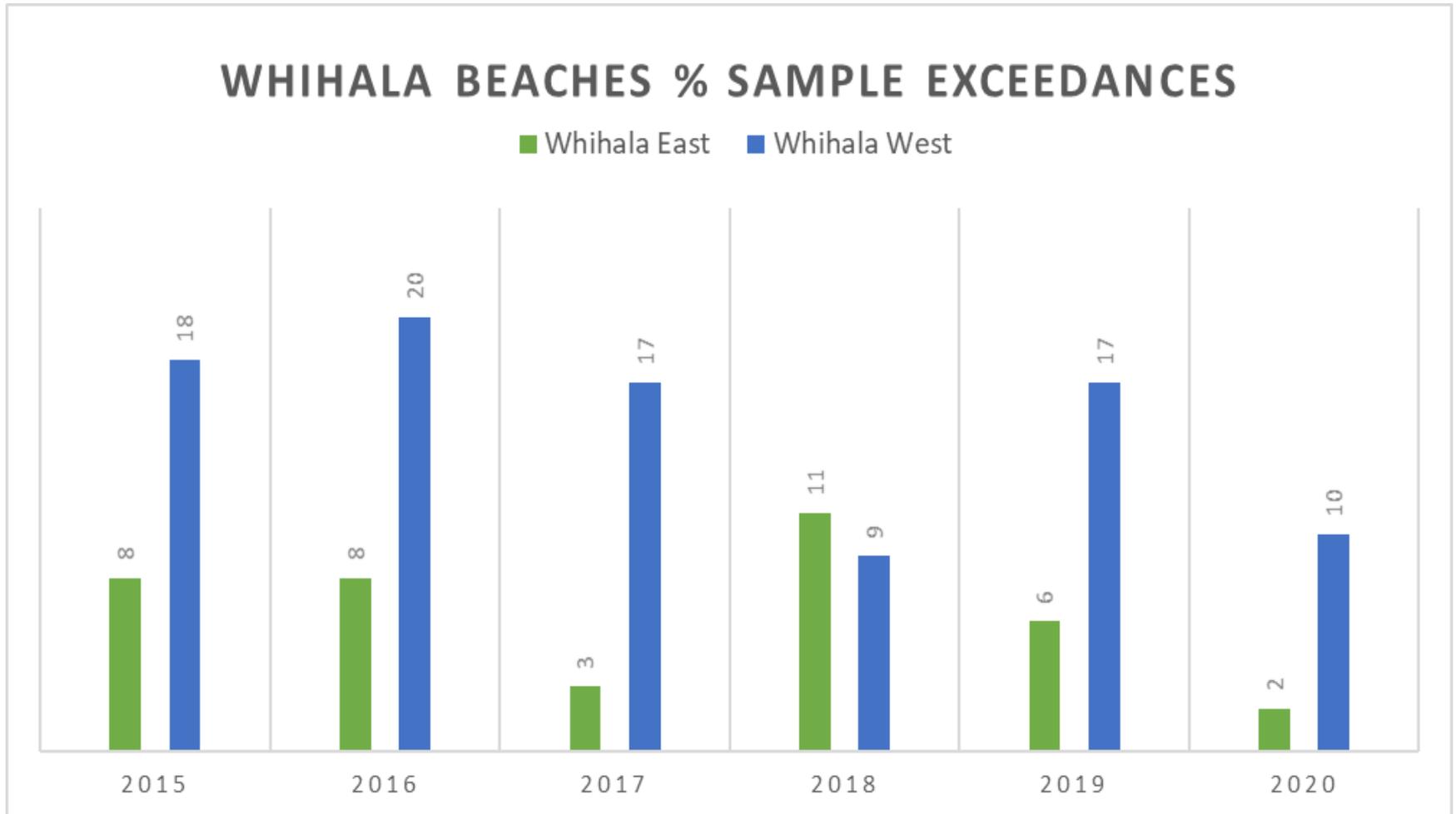




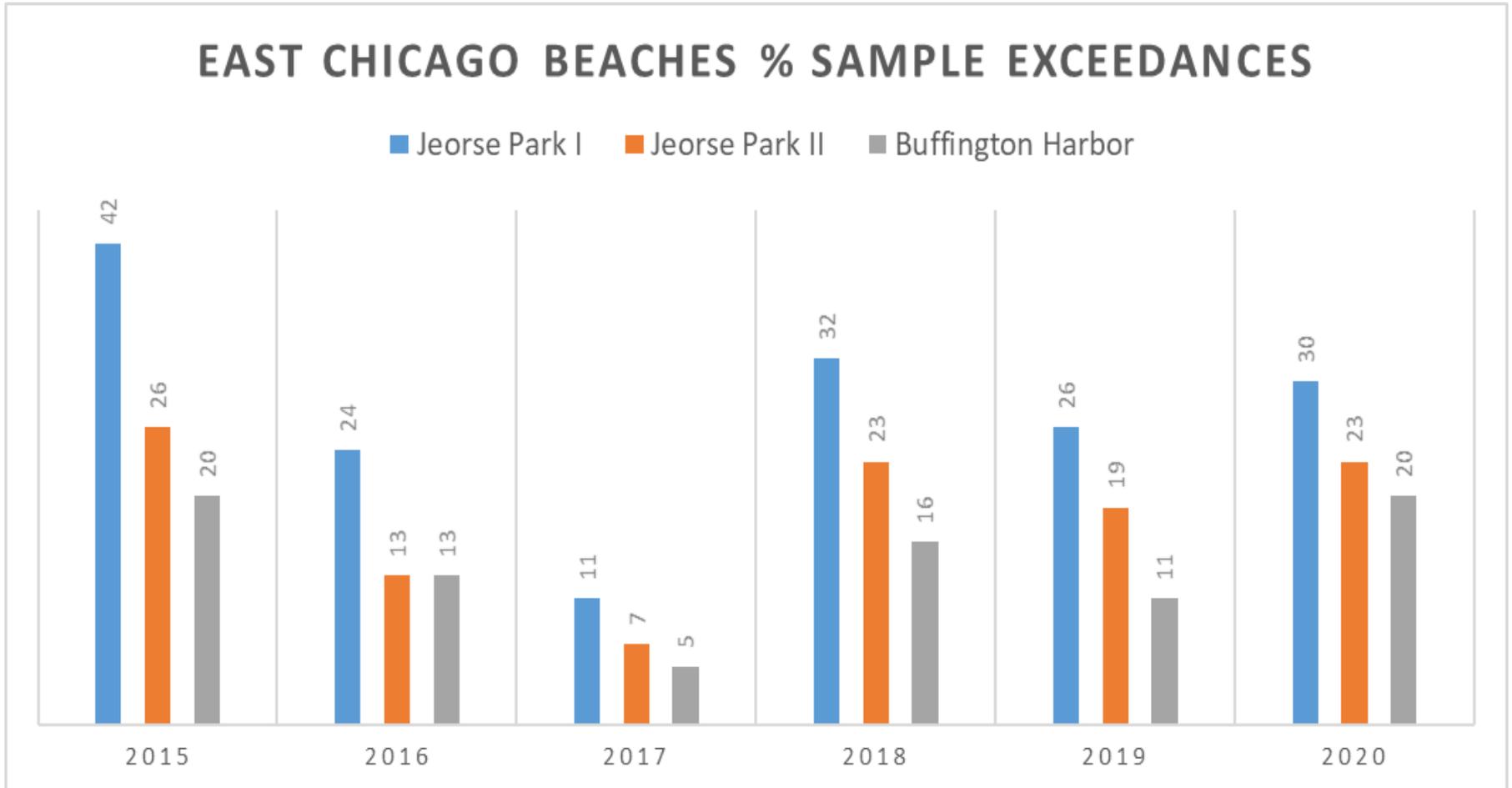
Hammond Beaches



Whiting Beaches



East Chicago Beaches

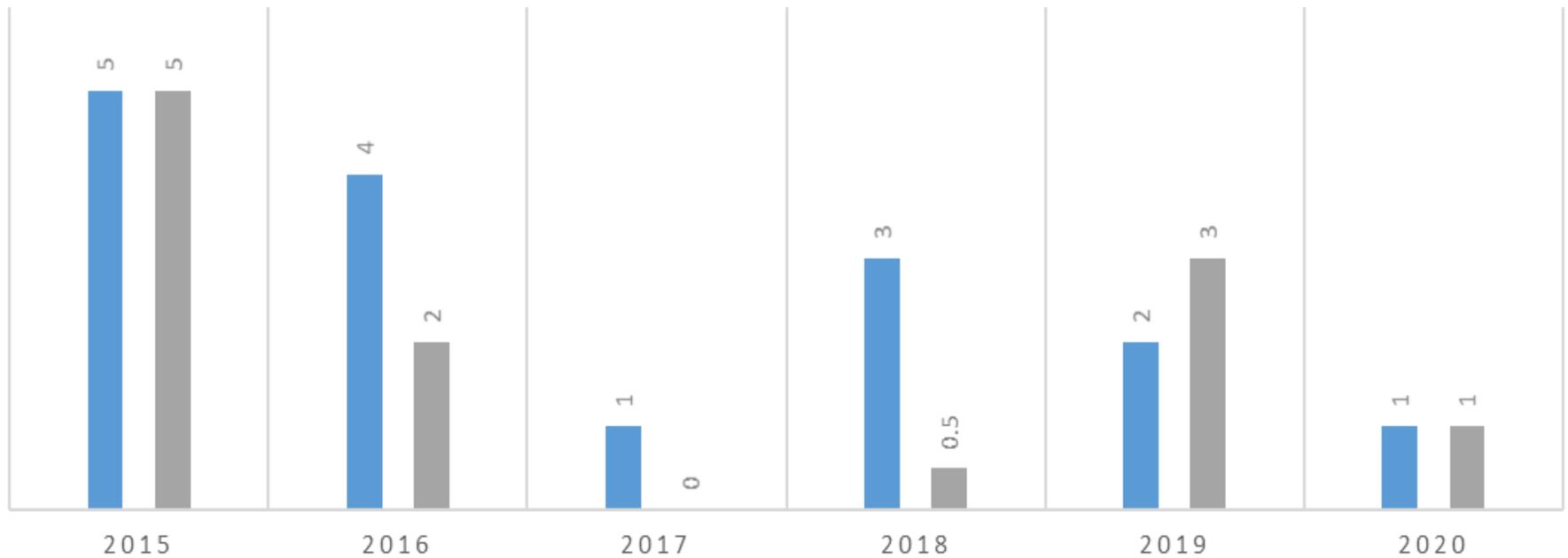




Gary's AOC Beaches

GARY'S AOC BEACHES % SAMPLE EXCEEDANCES

■ Lake Street ■ Marquette Park





Beneficial Use Impairment (BUI) #10: Beach Closings

This BUI can be considered for removal when:

Each individual beach along the Lake Michigan shoreline in the AOC has a percent exceedance rate of no higher than 15% for the *E. coli* samples taken from Memorial Day to Labor Day for three years out of a five-year period **OR** ...



This BUI can be considered for removal when:

Percent exceedance rates at AOC beaches will be compared to percent exceedance rates for comparable Lake Michigan beaches located outside of the AOC to determine if there is a significant difference for three years out of a five-year period, and if none occurs, then the Beach Closure BUI may be suggested for removal. A significant difference is defined as no greater than a one percent variance between an individual AOC beach and an individual non-AOC beach in each of the three years relied upon for suggesting BUI removal.

Note: *Contamination that leads to exceedances within the AOC may also be attributable to sources outside the AOC.*



BUI #10 – Exceedance Rates for Grand Calumet River AOC Beaches

AOC Beach Exceedance % Rates by Year*	2020	2019	2018	2017	2016	2015	2014
Hammond West	3	2	4	6	4	8	7
Hammond East	8	7	9	6	11	10	16
Whihala West	10	17	9	17	20	18	12
Whihala East	2	6	11	3	8	8	8
Jeorse Park I ***	30	26	32	11	24	42	54
Jeorse Park II ***	23	19	23	7	13	26	40
Buffington Harbor***	20	11	16	5	13	20	29
Lake Street**	1	2	3	1	4	5	3
Marquette Park**	1	3	< 1	0	2	5	3

* Exceedance rates based on number of samples collected from Memorial Day weekend through Labor Day.

** Lake Street and Marquette Park started monitoring on July 15, 2020 and on June 1, 2018.

*** East Chicago beaches started monitoring on June 16, 2020



BUI #10 - Exceedance Rates for Reference Site Beaches

Non-AOC Beach Exceedance Rates by Year*	2020	2019	2018	2017	2016	2015	2014
Indiana Dunes State Park West	6	13	12	8	13	12	14
Indiana Dunes State Park East	9	7	14	8	9	14	12
Ogden Dunes West	4	6	2	1	5	6	11
Ogden Dunes East	5	4	2	1	3	5	14
Washington Park	8	5	5	5	5	8	15

* Exceedance rates based on number of samples collected Memorial Day weekend through Labor Day weekend



BUI #10 Status Tracking

Beaches	2016	2017	2018	2019	2020
Hammond West	★	★	★	★	★
Hammond East	★	★	★	★	★
Whihala West	20	17		17	
Whihala East	★	★	★	★	★
Jeorse Park I	24		32	26	30
Jeorse Park II			23	19	23
Buffington Harbor	★	★	16	★	20
Lake Street	★	★	★	★	★
Marquette Park	★	★	★	★	★

Key:

MEETS REMOVAL CRITERIA



DOES NOT MEET CRITERIA

